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PGE synthase Polyclonal Antibody

Catalog # AP71872

Product Information

Application	WB, E, IHC-P
Primary Accession	O14684
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	17102

Additional Information

Gene ID	9536
Other Names	PTGES; MGST1L1; MPGES1; PGES; PIG12; Prostaglandin E synthase; Microsomal glutathione S-transferase 1-like 1; MGST1-L1; Microsomal prostaglandin E synthase 1; MPGES-1; p53-induced gene 12 protein
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. E~~N/A IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

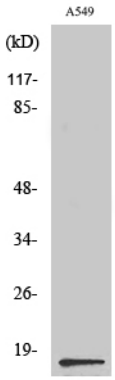
Name	PTGES
Function	Terminal enzyme of the cyclooxygenase (COX)-2-mediated prostaglandin E2 (PGE2) biosynthetic pathway. Catalyzes the glutathione-dependent oxidoreduction of prostaglandin endoperoxide H2 (PGH2) to prostaglandin E2 (PGE2) in response to inflammatory stimuli (PubMed:10377395, PubMed:10869354, PubMed:12244105, PubMed:12460774, PubMed:12672824, PubMed:17519235, PubMed:18682561). Similarly, catalyzes the conversion of PGH3 (derived from eicosapentaenoate (EPA, C20:5n-3)) to PGE3, though PGH2 remains the preferred substrate (PubMed:17519235). Plays a key role in inflammation response, fever and pain (By similarity). Also catalyzes the oxidoreduction of endocannabinoids into prostaglandin glycerol esters and PGG2 into 15- hydroperoxy-PGE2 (PubMed:12244105, PubMed:12672824). In addition, displays low glutathione transferase and glutathione-dependent peroxidase activities, toward 1-chloro-2,4-dinitrobenzene and 5- hydroperoxyicosatetraenoic acid (5-HPETE), respectively (PubMed:12672824).

Cellular Location	Membrane; Multi-pass membrane protein. Cytoplasm, perinuclear region. Note=Colocalizes with PTGS1/COX-1 and PTGS2/COX-2 in the perinuclear compartment

Background

Catalyzes the oxidoreduction of prostaglandin endoperoxide H2 (PGH2) to prostaglandin E2 (PGE2).

Images



Western Blot analysis of various cells using PGE synthase Polyclonal Antibody diluted at 1：500

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.